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TITLE: METHOD FOR SYNCHRONIZATION OF REDUNDANT DISK DRIVE ARRAY

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ABSTRACT:

PURPOSE: To provide a redundant configuration of a disk drive having an
improved data synchronizing method on the occurrence of a service interruption.

CONSTITUTION: The system includes the same plural nodes

which are connected
to each other, and each node includes a disk drive, an NVRAM and a processor.
The system traverses disk drives in different nodes and stores data in a RAID
or a mirrored system. An NVRAM in a parity node is provided with new data, the
copies of old data obtained from the nodes and an entry containing a synchronous state after the data are stored. The parity node decides a new
parity and sends it to a data node. The parity node resets a synchronous
indicator after receiving a notice. When power source is applied after a
service interruption, the parity node scans the NVRAM to decide whether an
entry exists in it and sends new data to an addressed data node when a
non-reset state is detected. Thus the synchronization is secured between the
data and parity nodes.